

Test Report issued under the responsibility of:



TEST REPORT IEC 62133

Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications

 Report Number......
 50079017 002

 Date of issue
 2017-12-01

Total number of pages 8 pages

Applicant's name: GlobTek, Inc.

Address 186 Veterans Dr. Northvale, NJ 07647 USA.

Test specification:

Standard: IEC 62133: 2012 (Second Edition)

Test procedure....: CB Scheme

Non-standard test method: N/A

Test Report Form No.....: IEC62133B

Test Report Form(s) Originator....: UL(Demko)

Master TRF: Dated 2013-03

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description.....: NiMh Battery Pack

Trade Mark...... : GlobTek, Inc.

Manufacturer GlobTek, Inc.

Model/Type reference....: BM2000C1450AA2S1PATP

Ratings...... 2.4V, 2000mAh, 4.8Wh



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4	TÜV Rheinland®
Repo	rt No.: 50079017 002

Testing procedure and testing location:	
	TÜV Rheinland (Shenzhen) Co., Ltd.
Testing location/ address	East of F/1, F/2 - F/4, Building 1, Cybio Technology, No. 16 Keji North 2nd Road, Hi-Tech Industry Park (North), Nanshan District, Shenzhen, Guangdong, China
Associated CB Testing Laboratory:	
Testing location/ address:	
Tested by (name + signature):	Jeffrey Qin Jeffrey Qin
Approved by (name + signature):	Daniel Dai Dantel Dal
☐ Testing procedure: TMP	
Testing location/ address:	
Tested by (name + signature):	
Approved by (name + signature):	
☐ Testing procedure: WMT	
Testing location/ address:	
Tested by (name + signature):	
Witnessed by (name + signature):	
Approved by (name + signature):	
☐ Testing procedure: SMT	
Testing location/ address:	
Tested by (name + signature):	
Approved by (name + signature):	
Supervised by (name + signature):	



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List of Attachments (including a total number of pages in each attachment): N/A					
IN/A					
Summary of testing:					
Tests performed (name of test and test clause):	Testing location: TÜV Rheinland (Shenzhen) Co., Ltd.				
N/A	East of F/1, F/2~F/4, Building 1, Cybio Technology Building No. 6 Langshan No.2 Road, North Hi-tech Industry Park 518057 Shenzhen Nanshan District CHINA				
Summary of compliance with National Difference See previous test report 50079017 001	ces:				
☑The product fulfils the requirements of EN62133: 2013					



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Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



NiMh Battery Pack

MODEL NO: BM2000C1450AA2S1PATP PART NO: BM2000C1450AA2S1PATP 2.4Vdc 2000mAh 4.8Wh







CAUTION:
DO NOT DISASSEMBLE
DO NOT SHORT CIRCUIT
DISPOSE OF PROPERLY

PRECAUCIÓN: NO DESMONTAR NO CORTOCIRCUITA RECOGIDA SELECTIVA

Red(+)
Black(-)
2HRLR 15/50

MADE IN CHINA WWYY

TRF No. IEC62133B



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Test item particulars:	
Classification of installation and use:	N/A
Supply connection:	DC Connector
Recommend charging method declared by the manufacturer:	Charging the battery with 200mA constant current for 16h at ambient 20°C±5°C.
Discharge current (0.2 lt A):	400mA
Specified final voltage:	2.0V
Chemistry:	☐ nickel systems ☐ lithium systems
Recommend of charging limit for lithium system	
Upper limit charging voltage per cell:	N/A
Maximum charging current:	1000mA
Charging temperature upper limit:	45°C
Charging temperature lower limit:	0°C
Polymer cell electrolyte type:	☐ gel polymer ☐ solid polymer ☒ N/A
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
Testing:	
Date of receipt of test item:	N/A
Date (s) of performance of tests:	N/A
General remarks:	
The test results presented in this report relate only to the This report shall not be reproduced, except in full, with alaboratory.	out the written approval of the Issuing testing
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the Throughout this report a ☐ comma / ☐ point is u	he report.
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes☒ Not applicable
When differences exist; they shall be identified in t	he General product information section.



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Name and address of factory (ies)	

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General product information:

The product is consisting of 2 rechargeable Ni-MH cells in series with one PTC in series between two batteries.

The main features of the battery are shown as below:

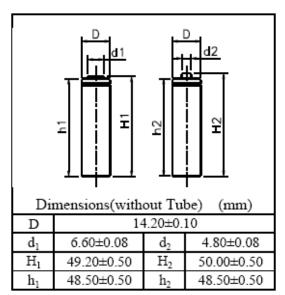
Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
BM2000C1450 AA2S1PATP	2000mAh	2.4V	200mA	400mA	1000mA	2000mA	N/A	2.0V

The main features of the cell in the battery are shown as below:

N	/lodel	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current		Maximum Discharge Current		Cut-off Voltage
AA	\2000	2000mAh	1.2V	200mA	400mA	1000mA	2000mA	N/A	1.0V

Notes: * means rms value.

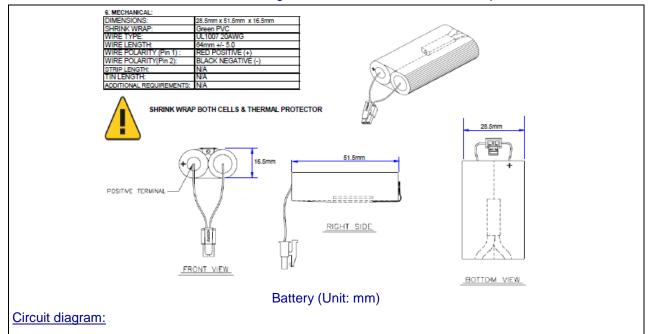
Construction:

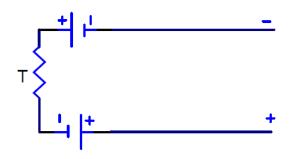


Cell(Unit:mm)



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Description of change:

1. Add the description about maximum discharge current

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1	N/A	Add the description about maximum discharge current,
		for details, see the Notes under table of the main
		features of the battery, No additional test need.

History of amendments and modifications:

Ref. No. 50079017 001, dated 2017-06-13 (original test report) Ref. No. 50079017 002, dated 2017-12-01 (1st Amendment)

-- End of the report--